



U.S. Department  
of Transportation  
**Research and  
Special Programs  
Administration**

**FEB 14 2000**

400 Seventh Street, S.W.  
Washington, D.C. 20590

DOT-E 8678  
(FOURTH REVISION)

EXPIRATION DATE: December 31, 2001

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: Eurotainer, S.A., Paris France  
(U.S. Agent: Eurotainer U.S., Inc.  
Somerset, New Jersey)

(See Appendix A to this document for a list of additional grantees)

2. PURPOSE AND LIMITATION: This exemption authorizes the transportation in commerce of certain Division 2.1 and 2.2 gases in non-DOT specification IMO Type 5 portable tanks. This exemption provides no relief from any regulation other than as specifically stated herein.
3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.
4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR § 173.315(a) in that non-DOT specification packaging is authorized.
5. BASIS: This exemption is based on the application of Eurotainer, S.A. dated December 3, 1999, submitted in accordance with § 107.109.
6. HAZARDOUS MATERIALS (49 CFR § 172.101):

Hazardous materials description -- proper shipping name	Hazard Class/ Division	Identi- fication Number	Packing Group
1,1-Difluoroethane, R152a	2.1	UN1030	N/A
1,1,1,2-Tetrafluoroethane	2.2	UN3159	N/A
Chlorodifluoroethane, R142b	2.1	UN2517	N/A

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Hazardous materials description -- proper shipping name	Hazard Class/ Division	Identi- fication Number	Packing Group
Chlorodifluoromethane, R22	2.2	UN1018	N/A
Chloropentafluoroethane, R115	2.2	UN1020	N/A
Dichlorodifluoromethane, R12	2.2	UN1028	N/A
Hexafluoropropylene, R1216	2.2	UN1858	N/A
Octafluorocyclobutane	2.2	UN1976	N/A

7. PACKAGING AND SAFETY CONTROL MEASURES:

A. PACKAGING - Packaging prescribed is a non-DOT specification portable tank, mounted in an ISO frame, designed and constructed in accordance with Compagnie Francaise DeMateriel Ferroviaire drawing numbers K.30.5.22 and 3 K.30.5.22 dated July 31, 1979, technical specifications and calculations on file with the Office of Hazardous Materials Exemptions and Approvals (OHMEA), and in compliance with the following:

- |     |   |                               |                               |
|-----|---|-------------------------------|-------------------------------|
| (1) | Code - Complies with ASME Code (not marked)           |                               |                               |
|     | Note: Portable tanks are to be postweld heat treated. |                               |                               |
|     | No new construction is authorized                     |                               |                               |
| (2) | Baffles - 2   |                               |                               |
| (3) | Sunshield - optional                                  |                               |                               |
| (4) | Insulation - none                                     |                               |                               |
| (5) | Model Number  | C168AG2760                    | C168AG3120                    |
| (6) | Water Capacity<br>(U.S. Gallons)                      | 4438.5                        | 4438.5                        |
| (7) | Material  | NF36205Avril79<br>A52FP steel | NF36205Avril79<br>A52FP steel |
| (8) | Tank size (inches)                                    |                               |                               |
|     | Outside diameter                                      | 78.74                         | 78.74                         |
|     | Length  | 236.61                        | 236.61                        |
|     | Shell thickness                                       | 0.564                         | 0.595                         |
|     | Head thickness  | 0.563                         | 0.591                         |
|     | Weld Joint efficiency                                 | 1.0                           | 1.0                           |

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(9) Design pressure (PSIG)	267	302
(10) Test pressure, minimum (PSIG)	400	453
(11) Tank surface area (Square feet)	441	441
(12) Maximum Gross Weight (Pounds)	52,911	52,911
(13) Maximum Tare Weight (Pounds)	14,770	16,534
(14) Maximum Commodity Weight (Pounds)	38,141	36,376
(15) Openings - One, 18 inch diameter manhole; one, 2 inch diameter manhole; one, 2 inch diameter vapor outlet; one, 3 inch diameter liquid fill; two 2 inch diameter safety relief valve pads; and one rotary gauge pad.		
(16) Pressure Relief Devices - Two (2), 2 inch diameter spring loaded safety relief valves. Model C168AG2760 portable tanks have pressure relief devices set to discharge at a pressure between 267 psig and 293 psig while Model C168AG3120 portable tanks have pressure relief devices set to discharge at a pressure between 302 psig and 332 psig. Minimum total relief device capacity must be 612,000 SCFH. Each pressure relief device must be marked with a start-to-discharge pressure in psig and a rated relief device capacity in SCFH.		
(17) G-Loadings: Vertical down 2; Vertical up 1; Longitudinal 2; and Tranverse 1.		

B. TESTING - Each tank must be (i) visually inspected prior to each trip to ensure that it has not been damaged on the previous trip; and (ii) retested and reinspected once every five years in accordance with § 173.32 as prescribed for DOT Specification 51 portable tanks.

C. OPERATIONAL CONTROLS -

- i. The rotary gauge may not be used with materials listed in paragraph 6 of this exemption. When these materials are transported, the rotary gauge must be removed and replaced by a blind flange and the tank loaded by weight.

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- ii. No product may be shipped that has venting requirements exceeding 720,000 SCFH. The venting capacity required for each product must be determined by the flow formulas contained in the Compressed Gas Association's (CGA) pamphlet S-1.2.
- iii. The tank must be filled so as not to be liquid full at less than or equal to 130°F.

8. SPECIAL PROVISIONS:

- a. A person who is not a holder of this exemption who receives a package covered by this exemption may reoffer it for transportation provided no modifications or changes are made to the package and it is reoffered for transportation in conformance with this exemption and the HMR.
- b. A current copy of this exemption must be maintained at each facility where the package is offered or reoffered for transportation.
- c. MARKING - Each portable tank must be plainly marked on both sides near the middle in letters at least two inches high on a contrasting background, "DOT-E 8678".
- d. Hydrostatic test certificates for each tank must be kept on file by the manufacturer or owner at its principal business office and be made available to the OHMEA upon request.

9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle, rail freight, cargo vessel.

10. MODAL REQUIREMENTS:

- a. A current copy of this exemption must be carried aboard each cargo vessel and motor vehicle used to transport packages covered by this exemption.
- b. Shipments by container on flat car service (COFC) or trailer on flat car (TOFC) service are not authorized except under conditions approved by the Associate Administrator for Safety, Federal Railroad Administration (see § 174.63).

11. COMPLIANCE: Failure by a person to comply with any of the following may result in suspension or revocation of this exemption and penalties prescribed by the Federal hazardous materials transportation law, 49 U.S.C. 5101 et seq:

- o All terms and conditions prescribed in this exemption and the Hazardous Materials Regulations, 49 CFR Parts 171-180.
- o Registration required by 49 CFR 107.601 et seq., when applicable.

Each "Hazmat employee", as defined in § 171.8, who performs a function subject to this exemption must receive training on the requirements and conditions of this exemption in addition to the training required by §§ 172.700 through 172.704.

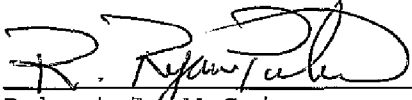
No person may use or apply this exemption, including display of its number, when the exemption has expired or is otherwise no longer in effect.

12. REPORTING REQUIREMENTS:

a. The carrier is required to report any incident involving loss of packaging contents or packaging failure to the Associate Administrator for Hazardous Materials Safety (AAHMS) as soon as practicable. (Sections 171.15 and 171.16 apply to any activity undertaken under the authority of this exemption.) In addition, the holder(s) of this exemption must inform the AAHMS, in writing, of any incident involving the package and shipments made under the terms of this exemption.

b. The owner of the tanks covered by this exemption must provide to the OHMEA a list of all shippers who have shipped under this exemption and a shipping experience report upon requesting renewal. The shipping experience report must contain approximate number of shipments made during the previous two years and any difficulties encountered.

Issued at Washington, D.C.:

  
For Robert A. McGuire  
Acting Associate Administrator  
for Hazardous Materials Safety

**FEB 14 2000**

(DATE)

Address all inquiries to: Associate Administrator for Hazardous Materials Safety, Research and Special Programs Administration, Department of Transportation, Washington, D.C. 20590.  
Attention: DHM-31.

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The original of this exemption is on file at the above office. Photo reproductions and legible reductions of this exemption are permitted. Any alteration of this exemption is prohibited.

Dist: FHWA, FRA, USCG  
PO: AM(00)

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The following are hereby granted party status to this exemption based on their application(s) submitted in accordance with § 107.107 or § 107.109, as appropriate:

Company Name City/State	Application Date	Issue Date	Expiration Date
CALORIE SA BUC CEDEX - FRANCE (U.S. Agent Condor Product Company, Owosso, MI)	Mar 15, 2001	MAY 1 2001	Dec 31, 2001
DuPont SHE Excellence Center Wilmington, DE	Nov 17, 1999	Jan 5, 2000	Dec 31, 2001



Robert A. McGuire  
Associate Administrator for  
Hazardous Materials Safety